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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,494	07/15/2004	Sharon A. Free	00124-01080-US	4493
	7590 10/24/200 BOVE LODGE & HUT		EXAMINER	
P O BOX 2207			HWU, DAVIS D	
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER
			3752	· · ·
			MAIL DATE	DELIVERY MODE
			10/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
	10/710,494	FREE ET AL.				
Office Action Summary	Examiner	Art Unit				
-	Davis D. Hwu	3752				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 Se	eptember 2007.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4-11 and 13-15</u> is/are pending in the application.						
4a) Of the above claim(s) 7-11 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-6 and 13-15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	<b>:</b> r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
<ol> <li>Certified copies of the priority document</li> </ol>	s have been received.					
2. Certified copies of the priority document						
3. Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,	- 4				
* See the attached detailed Office action for a list	of the certified copies not receiv	ea.				
•						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summan	v (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal 6) Other:	Patent Application				
Paper No(s)/Mail Date	5)					

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## **DETAILED ACTION**

1. Applicant's amendment and arguments of September 24, 2007 have been entered fully considered.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 103

3. Claims 1, 2, 4-6, and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Volz in view of MacDonald et al. and Spicher Volz discloses a reticulated polyurethane foam of a polyol foam forming mixture which is to be installed in a fuel tank to suppress an explosion in the tank, the foam comprising a volume electrical resistivity of less than 10E12 ohm-cm at 70 degrees F. Volz also discloses using ammonium salt to form the foam as recited in claim 12. Volz does not disclose a density less than 1.0 pounds per cubic feet or adding antistatic agents as recited. MacDonald et al. teaches a polyurethane foam which suppresses an explosion in which the foam has a density a density less than 1.0 pounds per cubic foot (column 2, lines 14-15) and Spicher teaches adding antistatic agents including potassium hexafluorophosphate to polyurethane foam. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Volz by providing the foam with a density of less than 1.0 pounds per cubic feet as taught by MacDonald et al. since MacDonald et al. teaches that such densities are known in forming polyurethane foams for suppressing an explosion and to have added an antistatic agent as taught by Spicher which will prevent static electric discharges

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which can cause an explosion. The device of Volz, MacDonald et al., and Spicher can be installed in a fuel tank and thus carry out the method as recited. The amount of coverage as recited in claim 5 would have been a matter of design choice as would have been the amounts of the agents as recited in claim 14. Volz also discloses using quarternary ammonium compounds as recited in claim 12 and metallic salts as recited in claim 13. The amounts as recited in claim 14 would have been matters of design choice since Volz has already disclosed the ingredients. Regarding claim 15, whether a product is patentable depends on whether it is known in the art or it is obvious and is not governed by whether the process by which it is made is patentable.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis D. Hwu whose telephone number is 571-272-4904. The examiner can normally be reached on 8:00-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Primary Examiner